

**Amendments to the Claim:**

This listing of the claims will replace all prior versions and listings of claims in the application:

**Listing of Claims:**

1. (Currently Amended): An isolated nucleic acid sequence ~~encoding a polypeptide of SEQ ID NO: 1 or a polypeptide having at least 90% sequence similarity to SEQ ID NO: 1 and~~ having the nucleotide sequence of SEQ ID NO:2 or the complement of a nucleic acid sequence that hybridizes to SEQ ID NO:2 under hybridization conditions of moderate stringency, wherein the nucleotide sequence encodes a polypeptide having hydroperoxide lyase (HL) activity.
2. (Original): The isolated nucleic acid sequence of claim 1 wherein the nucleic acid encodes a polypeptide of SEQ ID NO: 1.
3. (Original): The isolated nucleic acid of claim 1 wherein the nucleic acid has the sequence of SEQ ID NO: 2.
4. (Canceled).
5. (Currently Amended): A vector comprising a nucleic acid sequence ~~encoding a polypeptide of SEQ ID NO: 1 or a polypeptide having at least 90% sequence similarity to SEQ ID NO: 1 and~~ having the nucleotide sequence of SEQ ID NO:2 or the complement of a nucleic acid sequence that hybridizes to SEQ ID NO:2 under hybridization conditions of moderate stringency, wherein the nucleotide sequence encodes a polypeptide having hydroperoxide lyase (HL) activity.
6. (Currently Amended): A host cell transformed with a vector comprising a nucleic acid sequence ~~encoding a polypeptide of SEQ ID NO: 1 or a polypeptide having at least 90% sequence similarity to SEQ ID NO: 1 and~~ having the nucleotide sequence of SEQ ID NO:2 or the

complement of a nucleic acid sequence that hybridizes to SEQ ID NO:2 under hybridization conditions of moderate stringency, wherein the nucleotide sequence encodes a polypeptide having HL activity.

7. (Original): The host cell of claim 6 wherein the host cell is *E. coli*.

Claims 8-13 (canceled).